CORONA VALVES

Cast Steel Globe Valve Flange Ends (ND-40)

IBR

Specification

CORONA Cast Steel Globe Stop Valve. Bolted Bonnet, outside screw & yoke type rising stem, renewable stainless steel seats & trim, handwheel operated, flanged ends as per BS:4504 Part I Table 40/1 identical to DIN 2545 RF, nominal pressure rating PN 40 confirming to BSL5160/DIN 2401.

Testing & certification

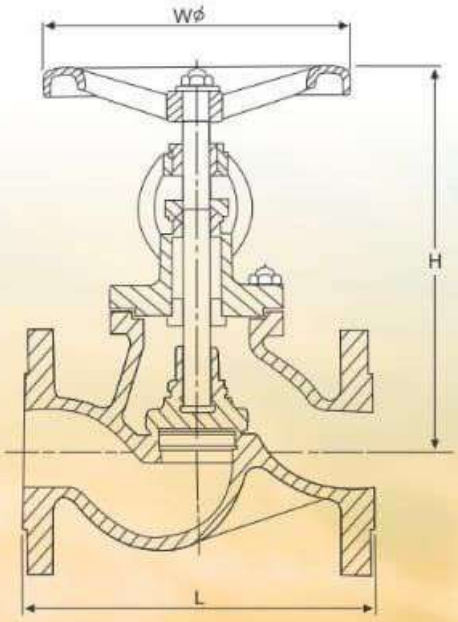
Body Test Pressure = 76 bar (1100 Psig) Hyd.
Seat & Backseat Test Pressure = 40 bar (580 Psig) Hyd.

MATERIALS

Components	Material	Material Code
Body, Bonnet, Gland Flenge	Cast Carbon Steel	CS
Body, Seat Ring, Valve Disc Stem Nut, Backseat Bush Yoke Bush, Stem & Gland	Stainless Steel	SS 410
Gasket	Compressed asbestos Fibre	CAF
Handwheel	Cast Iron	CI
Fasteners	Mild Steel	MS

DIMENSIONS IN mm

Normal Size	L	H	W
15	130	180	125
20	150	180	125
25	160	200	160
32	180	215	160
40	200	250	200
50	230	270	200
65	290	280	250
80	310	320	250
100	350	350	300
125	400	400	300
150	480	460	300
200	600	550	350



VARUNA ENGINEERING COMPANY

PLOT NO. 5, WARIANA INDUSTRIAL COMPLEX, ADJOINING LEATHER COMPLEX, SANGAL SOHAL JALANDHAR CITY. PH: 98725-91962, 98153-70034, 82839-59999, Email: varuna_engg@hotmail.com

CORONA VALVES

Cast Steel/Bronze Parallel Slide Blow off Valve (IBR)

Description

CAST STEEL PARALLEL SLIDE BLOW OFF VALUE
Rack & Pinion Operated Monel / S.S. seats, supplied with operating key. Flanged ends as per BS Table 'J'

Tested & Suitability

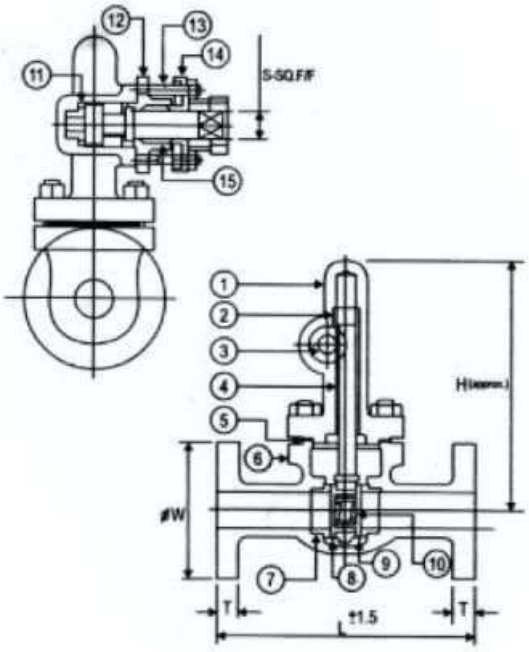
HYDRAULIC FOR MAX BOP 350Psig
MAX. SERVICE TEMPERATURE: 400°C
BODY & SEAT TEST PRESSURE: 700 Psig. Hyd
SUITABLE : Water & Steam.

Dimensions in mm

INCH.	MM	LENGHT	H	D	T
1"	25	178	200	120.6	19.05
1-1/4"	32	242	260	133.3	19.05
1-1/2"	40	267	260	139.7	22.2
2"	50	305	300	165.1	25.4

MATERIALS

P.No	Name of Parts	Materials	Specification
1	Bonnet	C.S	ASTM A216 Gr. WCB
2	Rack Bush	Bronze	IBR 282 (a) (iv) Gr. B
3	Pinion	Bronze	IBR 282 (a) (iv) Gr. B
4	Rack	Bronze	IBR 282 (a) (iv) Gr. B
5	Gasket	CAF	BS 2815 Gr. A
6	Body	C.S	ASTM A216 Gr. WCB
7	Body Seat Ring	Monel/SS410	
8	Female Disc	Monel/SS410	
9	Male Disc	Monel	
10	Spring	Spring Steel	
11	Bush	S.S/ Bronze	AISI 410
12	Stuffing Box	Bronze	ABR 282 (a) (iv) Gr. B
13	Studs & Nuts	Carbon Steel	Min UTS= 390 Mpa
14	Gland	Bronze	
15	Gland Packing	Graphited Asbestos	



VARUNA ENGINEERING COMPANY
PLOT NO. 5, WARIANA INDUSTRIAL COMPLEX, ADJOINING LEATHER COMPLEX, SANGAL SOHAL
JALANDHAR CITY. PH: 98725-91962, 98153-70034, 82839-59999, Email: varuna_engg@hotmail.com

CORONA VALVES

BRONZE GLOBE STEAM STOP VALVE

SCREWED / FLANGED

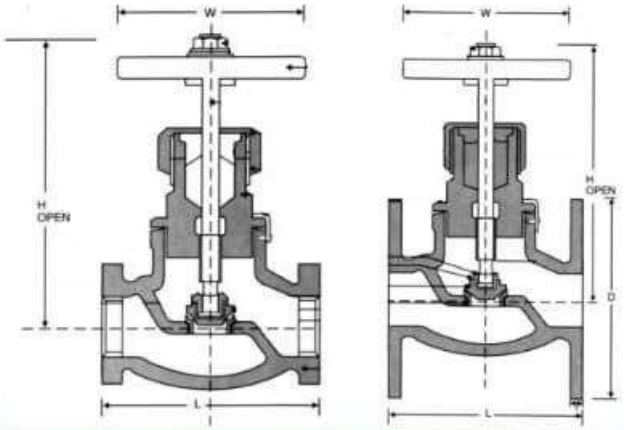
IBR

Description

CORONA Bronze Globe Steam Stop Valve Screwed in bonnet Inside screw, Rising stem with Renewable Stainless Steel Seat and Stem Handwheel operated Screwed or Flanged ends

MATERIALS

Components	Material	Specification
Body, Bonnet, Gland , Gland Nut and Check Nut	Bronze	IBR 282 (a) (iv) Gr B
Stem, Body Seat ring and Valve disc	Stainless Steel	SS 410
Locking Washer	Brass Sheet	
Hand wheel	Cast Iron	IS: 210- 1978 Gr FG 200
Handwheel nut and washer	Carbon Steel	
Gland Packing	Asbestos	Champion style 1860 or Equivalent



Test Pressures:
Body Test Pressure: 500 Psig Hyd.
Seat Test Pressure: 500 Psig- 250 Psig Steam

Dimensions in millimeters

Nominal Size		Face to Face Distance L		Centre to Top H (Open)	Handwheel Diameter W
Inch	mm	Screwed	Flanged		
1/2	15	83	102	125	90
3/4	20	95	114	125	90
1	25	111	127	140	102
1 1/4	32	133	140	150	127
1 1/2	40	150	150	185	127
2	50	178	178	215	150

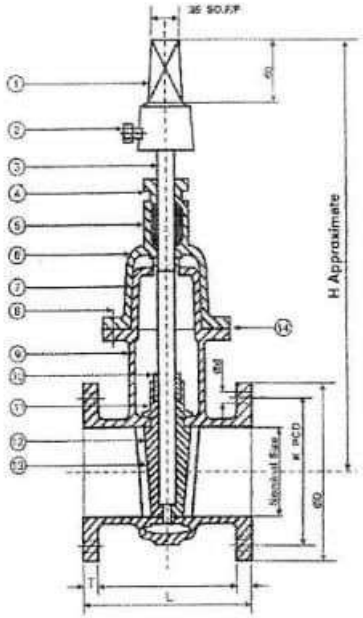
VARUNA ENGINEERING COMPANY

PLOT NO. 5, WARIANA INDUSTRIAL COMPLEX, ADJOINING LEATHER COMPLEX, SANGAL SOHAL
JALANDHAR CITY. PH: 98725-91962, 98153-70034, 82839-59999, Email: varuna_engg@hotmail.com

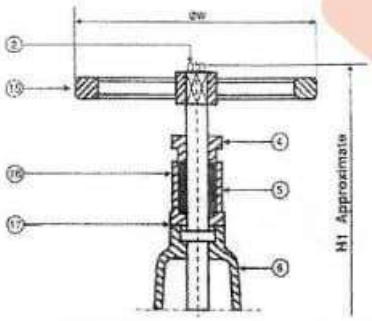
Cast Iron Sluice Valve Flanged Ends

Specification

CORONA Cast Iron Sluice Valve, Bolted Bonnet, Inside Screw, Non rising Stainless Steel (Type 410) Stem, Gunmetal rings, Handwheel operated, conforming to ISI4846:2000 Rating PN 1.0/PD Type, Flanged Ends Drilled as per IS1846/IS1538.



DESIGN FOR SIZE 150MM AND BELOW



DESIGN FOR SIZE 200mm & ABOVE

DESIGN IN mm

NOMINAL SIZE	50	65	80	100	125	150	200	250	300
L	178^{+2}	190^{+2}	203^{+2}	229^{+2}	254^{+2}	267^{+2}	292^{+2}	330^{+2}	356^{+2}
H1	325	360	400	450	485	454	675	770	875
H	395	420	455	510	560	610	740	840	920
W	225	225	225	320	320	320	360	400	400
D	165	185	200	220	250	285	340	395	445
T	16	16	21	22	22.5	23	24.5	26	27.5
Nxed	4x19	4x19	4x19	8x19	8x19	8x23	8x23	12x23	12x23
K	125	145	160	180	180	240	295	295	400

MATERIALS

P.NO	NAME OF PART	NO. OFF	MATERIAL	REMARKS
1	CAP	1	C.I	IS 210 Gr.FG200
2	SCREW	1	CARBON STEEL	IS 1363
3	STEM	1	H.T. BRASS/S.S	IS 6912 FHTB2/410
4	GLAND	1	C.I	IS 210Gr. Fg200
5	GLAND PACKING	1	JUTE & HEMP	IS 5414
6	BONNET	1	C.I.	IS 210 Gr.FG 200
7	THRUST PLATE	1	C.I.	IS 210 Gr.FG 200
8	BOLT/NUTS	TO SUIT	CARBON STEEL	IS 1363PART1 / IS 1363PART3
9	BODY	1	C.I	IS 210 Gr.FG 200
10	WEDGE NUT	1	LEADED TIN BRONZE	IS 318 Gr.LTB2
11	WEDGE	1	C.I.	IS 210 Gr.FG 200
12	BODY SEAT RING	2	LEADED TIN BRONZE	IS 318 Gr.LTB2
13	WEDGE RING	2	LEADED TIN BRONZE	IS 318 Gr.LTB2
14	GASKET	1	RUBBER	IS 638 TYPE B
15	HANDWHEEL	1	C.I.	IS 210 Gr.FG 200
16	STUFFING BOX	1	CI.I	IS 210 Gr.FG 200
17	GASKET	1	RUBBER	IS 638 TYPE B
18	T-HEAD BOLTS/BOLTS & NUTS FOR GLAND (NOT SHOWN)	TO SUIL	CARBON STEEL	IS 1363PART1 / IS 1363PART3

VARUNA ENGINEERING COMPANY

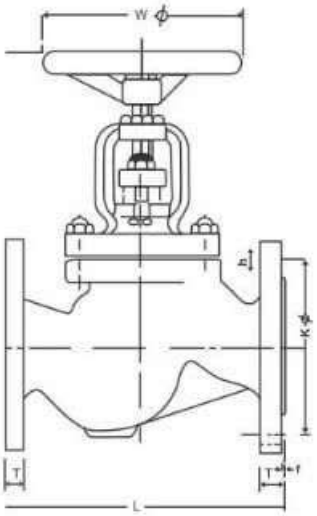
PLOT NO. 5, WARIANA INDUSTRIAL COMPLEX, ADJOINING LEATHER COMPLEX, SANGAL SOHAL JALANDHAR CITY. PH: 98725-91962, 98153-70034, 82839-59999, Email: varuna_engg@hotmail.com

CORONA VALVES

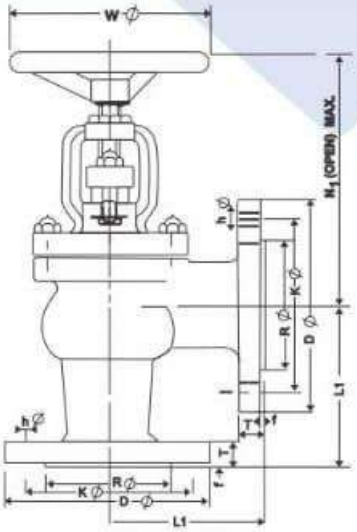
Cast Iron Globe/Angle Steam Sop Valve

CONFORMING TO BS 5152

IBR



ANGLE PATTERN SS TRIM



STRAIGHT PATTERN SS TRIM

TESTING & CERTIFICATION

Value Size	Rating	Body Test Pressure (Hyd.)	Seat Test Pressure (Hyd.)	Backseat Pressure (Hyd.)
15mm & below	PN 16	26 kg/cm2g	16 kg/cm2g	16 kg/cm2g
200 mm	PN 10	17 kg/cm2g	10 kg/cm2g	10 kg/cm2g
Director of Boilers, Punjab. Test Certificate in form III-C as per IBR is furnished with every supply.				

TABLE: 4 DIMENSIONS IN MILLIMETRES

Nominal Size	L	L1	H	H1	W	D	T	R	f	K	h	No. of Holes
15	130	90	220	205	100	95	14	45	2	65	14	4
20	150	95	220	205	100	105	16	58	2	75	14	4
25	160	100	230	205	100	115	16	68	2	85	14	4
32	180	105	260	240	125	140	18	78	2	100	18	4
40	200	115	270	250	160	150	18	88	3	110	18	4
50	230	125	290	260	160	165	20	102	3	125	18	4
65	290	145	340	315	200	185	20	122	3	145	18	4
80	310	155	400	340	200	200	22	138	3	160	18	8
100	350	175	450	405	250	220	24	158	3	180	18	8
125	400	200	500	445	250	250	26	188	3	210	18	8
150	480	225	550	490	315	285	26	212	3	240	23	8
200	600	275	670	600	400	340	26	268	3	295	23	8
250	730	325	810	720	400	395	28	320	3	350	23	12
300	850	375	950	850	400	445	28	370	4	400	23	12

VARUNA ENGINEERING COMPANY

PLOT NO. 5, WARIANA INDUSTRIAL COMPLEX ADJOINING LEATHER COMPLEX , SANGAL SOHAL

JALANDHAR CITY. PH: 98725-91962, 98153-70034, 82839-59999